Printed Pages : 3

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BOP-232

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID 150319

Roll No. | | | | | | | | | | |

B.Pharma.

(SEM. III) ODD SEMESTER THEORY EXAMINATION, 2014-15

PHARMACEUTICS-II (UNIT OPERATIONS)

Time : 3 Hours] *[Total Marks : 70*

Note: Attempt all sections.

(Section-A)

1. Attempt any four parts: 3.5×4=14

(a) Explain ' mass balance' and energy balance'. Give its applications.

(b) Define:

i) Raw water

ii) Soft water

iii) Purified water

(c) Discuss Kozeny-Carman theory of filtration and give its limitations.

(d) What is RCF? Discuss its importance in the centrifugation process.

(e) Define Drying. What role does drying play in the dosage form manufacturing?

(Section-B)

2. Attempt any six parts: 4×6=24

(a) What is the quality requirement of water in pharmaceutical industry?

(b) Discuss the various elements of automatic process control systems.

(c) Give the principle, advantages and disadvantages of perforated basket centrifuge.

(d) Describe the drying rate curve and explain its applications.

(e) What is a psychrometric chart? How it is utilized to generate data on a definite air-water mixture?

(f) What is a Fire Triangle? Write a note on prevention of fire hazards.

(Section-C)

Attempt any four questions: 8×4=32

3. Classify Filters. With the help of a neat and well-labeled diagram explain the principle and working of Plate and Frame filter press.

4. How Dryers can be classified? Explain the construction and operation of a freeze dryer. Give its applications in pharmacy.

5. What are the factors to be considered in the choice of a refrigerant? Describe a compression refrigeration system.

6. Discuss the factors influencing the selection of materials for pharmaceutical plant construction.

7. Give the general composition, types, resistance properties and pharmaceutical applications with reference to steel.

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